



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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TO: Daron Haddock, Permit Supervisor

FROM: Wayne H. Western, Reclamation Engineer

DATE: March 14, 1994

RE: Request for Permit Change IBC, Genwal Coal Company, Crandall Canyon Mine, ACT/015/032, Folder #2, Emery County, Utah

Synopsis of Proposal #5:

The Applicant has committed not to conduct any retreat mining in the IBC area until the new lease UTU-68082 amendment has been approved.

Analysis:

The Applicant has committed to conduct first mining only in the IBC area.

Recommendation:

Approve the Applicant's propose to conduct first mining only in the IBC.

Synopsis of Proposal #6:

The Applicant must show that first mining in the IBC will not result in any subsidence. The information supplied to the Division will include, but not be limited to, the coal's strength and pillar size and safety factor.

The Applicant has supplied the Division with the information we requested. The minimum pillar safety factor is 1.23, which is less than the recommended safety factor of 1.3.

A Left panel is located 480 feet north of 1st Left section and runs parallel to 1st Left section. Cover in A-Left ranges from a high of 1700 feet to a low of 800 feet compared to 2200 feet to 800 feet in 1st Left section. It can be seen by the pillar safety factor calculations (Appendix 5-3) that by using the Obert-Duvall pillar strength formula the safety factor for the pillars in A-Left is 1.23. The 1.23 safety factor is slightly less than the 1.3 safety factor recommended. However, experience has shown in 1st Left section, which is next to A-Left, pillars left intact stayed and remain stable with a pillar safety factor of 1.1



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one year after mining.

A five-entry system will be used in the IBC area. There will be four sets of pillars. Three of the four pillars will be full size and have safety factors that exceed 1.3. The small pillar is required because of limitations of the haulage system. The pillars have proven adequate in other areas with more overburden.

Recommendation:

Accept the Applicants pillar design.

GEN2IBC.WHW